

Paul Grigoras

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Education

- '13 – present **PhD in Computing**, *Imperial College London*.
Heterogeneous Solutions for Sparse Linear and Nonlinear Algebra - performance models and optimised implementations for sparse linear and nonlinear algebra on heterogeneous platforms using CPUs, FPGAs and GPUs.
- '09 – '13 **MEng Computing**, *Imperial College London*, *First Class Honours*.
Masters course on Software Engineering and Computer Architecture.
Awards Engineering Dean's List (all years), SET Awards Finalist, ARM Project Prize, Deutsche Bank Prize, Morgan Stanley IT Prize
- '05 – '09 **Romanian Baccalaureate**, *"Mihai Viteazul" College*, Bucharest.
High school level course with focus on Mathematics and Computer Science.
Grades 97% Mathematics, 100% Physics, 97.9% Overall

Experience

- '13 – Present **Postgraduate Teaching Assistant**, *Imperial College London*.
Held weekly tutorials, marked and discussed assessed exercises
- 2013 **Site Reliability Engineering Intern**, *Google*, London.
3 months Worked on a web application for monitoring production systems (Python, Google Closure)
- 2012 **Compiler Engineering Intern**, *Maxeler Technologies*, London.
6 months Worked on high-level tools for dataflow programming on FPGAs:
MaxCompiler - extended static timing analysis and resource usage annotation
MaxDebug - added support for debugging devices on shared compute nodes
MaxIDE - developed a templating system, user facing C and FPGA tutorials
- 2011 **Undergraduate Teaching Assistant**, *Imperial College London*.
2 years Held weekly tutorials, marked and discussed unassessed exercises
- 2011 **Research Placement**, *Custom Computing Group, Imperial College*.
1 year Worked on accelerating a compute intensive imaging application using FPGAs
- 2011 **Summer Analyst in Technology**, *Morgan Stanley*, London.
3 months Developed a web application for client account management (Java, ExtJS)

Skills

Programming Preferred: Java, C, C++

Exposure: Javascript, Haskell, Python, Bash

Tools Linux, Emacs, Sublime Text, Eclipse, IntelliJ

Ant, Ivy, Maven, Autotools, CMake, Make

Git, Subversion, Perforce, Jira, Trac, TeamCity, Jenkins

Languages Romanian (Native), English (IELTS 8/9), French (Fluent)

Interests

Karate 1 dan black belt in Shotokan Karate

Silver and Bronze at the ITKF European Championships, Prague '05

Robotics Worked in a team of 6 on a robot for Eurobot '11

Participated in the Arcelor Mittal 2011 robotics competition

Projects and Contests

'10, '12, '13 ACM ICPC, North-Western Europe Regional

'13 **fastcc** – aspect oriented compiler for dataflow designs (C++, MaxJ)

'12 **ProTrade** – in-play tennis trading platform (Java, SWT)

'11 **SocialCoder** – online programming platform (Java, Spring, JSF, JPA)

'09 **Function grapher** – high-school graduation project (Java, Swing)

'04 – '09 Romanian National Physics and Informatics Olympiad

Publications

J. G. F. Coutinho, O. Pell, E. O'Neill, P. Sanders, J. McGlone, P. Grigoras, W. Luk, and C. Ragusa, "HARNESS Project: Managing Heterogeneous Computing Resources for a Cloud Platform," in *ARC*, 2014.

P. Grigoras, X. Niu, J. G. Coutinho, W. Luk, J. Bower, and O. Pell, "Aspect Driven Compilation for Dataflow Designs," in *ASAP*, 2013.